

Technical data sheet

225S-024T-05-S2 Rotary actuator

Description

Rotary actuator for adjusting dampers in HVAC installations

Running time
 Torque
 Nominal voltage
 Control
 Auxiliary switch
 Running time
 S / 90°
 Nm
 4 VAC/DC
 2-/3-point
 2x freely adjust

Auxiliary switch
 Damper size
 Chaff any line

2x freely adjustable

 up to approx. 1 m²

• Shaft coupling clamp

♦ 8-12 mm / Ø 8-16 mm



Technical data

Electrical data	Nominal voltage	24 VAC/DC, 50/60 Hz
	Nominal voltage range	1929 VAC/DC
	Power consumption motor (motion)	2,0 W
	Power consumption standby (end position)	1,0 W
	Wire sizing	3,5 VA
	Control	2-/3-point
	Feedback signal	-
	Auxiliary switch	2x SPDT (Ag)
	Contact load	5 (2,5) A, 250 VAC
	Switching point	0°95°
	Connection motor	screw terminals, 3-pin 0,51,5 mm²
	Connection feedback potentiometer	-
	Connection auxiliary switch	screw terminals, 6-pin 0,51,5 mm²
	Connection GUAC	-
Functional data	Torque	5 Nm



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Functional data	Damper size	up to approx. 1 m²
	Synchronised speed	-
	Direction of rotation	selected by switch
	Manual override	gearing latch disengaged with pushbutton, self-resetting
	Angle of rotation	0°max. 95° can be limited with adjustable mechanical end stops
	Running time	2035 s / 90° (load-dependent)
	Sound power level	< 45 dB(A)
	Shaft coupling	clamp ◊ 8-12 mm / Ø 8-16 mm
	Position indication	mechanical with pointer
	Service life	> 60 000 cycles (0°95°0°)
Safety	Protection class	III (safety extra-low voltage)
·	Degree of protection	IP 52 (cable port downwards)
	EMC	CE (2014/30/EU)
	LVD	CE (2014/35/EU)
	RoHS	CE (2011/65/EU - 2015/863/EU - 2017/2102/EU)
	Mode of operation	Typ 1 (EN 60730-1)
	Rated impulse voltage	0,8 kV (EN 60730-1)
	Control pollution degree	3 (EN 60730-1)
	Ambient temperature normal operation	-30°C+50°C
	Storage temperature	-30°C+80°C
	Ambient humidity	595% r.H., non condensing (EN 60730-1)
	Maintenance	maintenance free
Dimensions / Weight	Dimensions	145 x 70 x 61 mm
-	Weight	500 g



Functionality / Properties

Operating mode

2 point:

Connect power supply to terminal 1+2, actuator drives to position 1. Is also terminal 3 connected to the power supply, actuator drives to position 0.

3 point:

Connect power supply to terminal 1+2, actuator drives to position 1. Is terminal 1+3 connected to the power supply, actuator drives to position 0.

The actuator is overload-proof, requires no limit switches and automatically stops, when the end stop is reached.

Direct mounting

Simple direct mounting on the damper shaft with a clamp, protection against rotating with enclosed anti-rotation lock or rather at intended attachment points.

Manual override

Manual override with selfresetting pushbutton possible (the gear is disengaged as long as the button is pressed).

Signaling

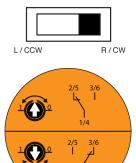
The two integrated auxiliary switches are freely adjustable in the angle of 0 - 95°. There are activated corresponding to the adjusted angle. The damper position can be checked by the mechanicel pointer.

Mode switch

DIP switch under the case cover

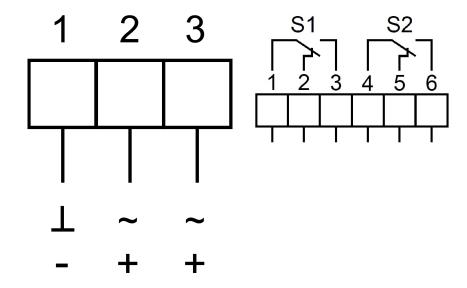
R / CW: rotary direction right / clockwise

L / CWW: rotary direction left / counter clockwise





Connector / Security Note

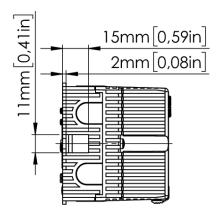


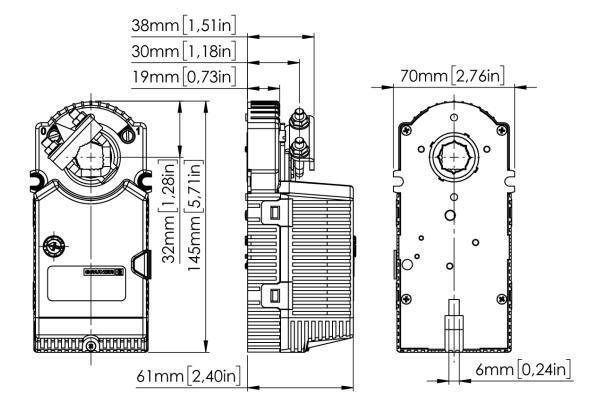
Safety remarks

- Connect via safety isolation transformer!
- The device is not allowed to be used outside the specified field of application, especially in airplanes.
- It may only be installed by suitably trained personnel. Any legal regulations or regulations issued by authorities must be observed during assembly.
- The device may only be opened at the manufacturer's site.
- The device is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.
- When calculating the required torque, the specifications supplied by the damper manufacturer's (crosssection, design, installation site), and the air flow conditions must be observed.



Technical Drawing





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